

Claims

What is claimed is:

1. A soybean seed designated 92B84, representative seed of said soybean variety 92B84 having been deposited under ATCC Accession No. _____.
2. A soybean plant, or parts thereof, produced by growing the seed of claim 1.
3. The soybean plant part of claim 2 wherein said part is pollen.
4. The soybean plant part of claim 2 wherein said part is an ovule.
5. A tissue culture of regenerable cells from the plant of claim 2.
6. A tissue culture according to claim 5, the cells or protoplasts of the tissue culture being of a tissue selected from the group consisting of: leaf, pollen, cotyledon, hypocotyl, embryos, root, pod, flower, shoot and stalk.
7. A soybean plant regenerated from the tissue culture of claim 5, capable of expressing all the morphological and physiological characteristics of soybean variety 92B84, representative seed of said soybean variety 92B84 having been deposited under ATCC Accession No. _____.
8. A method for developing a soybean plant in a soybean breeding program using plant breeding techniques, which include employing a soybean plant, or its parts, as a source of plant breeding material, comprising: obtaining the soybean plant, or its parts, of claim 2 as a source of said breeding material.
9. The soybean breeding program of claim 8 wherein said plant breeding techniques are selected from the group consisting of: recurrent selection, mass selection, bulk selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.
10. A soybean plant or parts thereof produced by the method of claim 8.
11. A method for producing a first generation hybrid soybean seed comprising: crossing the plant of claim 2 with a different inbred parent soybean plant, and harvesting the resultant first generation hybrid soybean seed.
12. An F_1 hybrid soybean seed produced by the method of 11.
13. The method of claim 11 for producing a first generation hybrid soybean seed wherein the inbred soybean plant of claim 2 is the female parent.
14. The method of claim 11 for producing a first generation hybrid soybean seed wherein the inbred soybean plant of claim 2 is the male parent.

15. The soybean plant, or parts thereof, of claim 2, wherein the plant or parts thereof have been transformed so that its genetic material contains one or more transgenes.
16. A method for producing a soybean plant that contains in its genetic material one or more transgenes, comprising crossing the soybean plant of claim 15 with either a second plant of another soybean line, or a non-transformed soybean plant of the soybean variety 92B84, so that the genetic material of the progeny that result from the cross contains the transgene.
17. A soybean plant or parts thereof, produced by the method of claim 16.
18. An F₁ hybrid soybean seed plant, or parts thereof, grown from the seed of claim 17.
19. A method for developing a soybean plant in a soybean breeding program using plant breeding techniques, which include employing a soybean plant, or its parts, as a source of plant breeding material, comprising: obtaining the soybean plant, or its parts, of claim 15 as a source of said breeding material.
20. The soybean breeding program of claim 19 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, mass selection, bulk selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.
21. A soybean plant or parts thereof produced by the method of claim 19.
22. A soybean plant or parts thereof, wherein at least one ancestor of said soybean plant is the soybean plant of claim 2.
23. The soybean plant of claim 22 wherein said soybean plant or parts thereof, express a combination of at least two 92B84 traits selected from the group consisting of: a relative maturity of 28, very good yield, Multi-race Phytophthora resistance (Rps1k), resistance to Brown Stem Rot, moderate Sudden Death Syndrome tolerance, above average iron deficiency chlorosis tolerance, a substantial degree of glyphosate resistance, and particularly suited to the North Plains, Plains, Southern Plains and Eastern regions of the United States including Iowa, Illinois, Indiana, Missouri, Michigan, Wisconsin and Ohio.
24. A soybean plant, or parts thereof, having all the physiological and morphological characteristics of the plant of claim 2.
25. The soybean plant part of claim 24 wherein said part is pollen.
26. The soybean plant part of claim 24 wherein said part is an ovule.
27. A tissue culture of regenerable cells from the plant of claim 24.

28. A tissue culture according to claim 27, the cells or protoplasts of the tissue culture being of a tissue selected from the group consisting of: leaf, pollen, cotyledon, hypocotyl, embryos, root, pod, flower, shoot and stalk.
29. A soybean plant regenerated from the tissue culture of claim 24, capable of expressing all the morphological and physiological characteristics of soybean variety 92B84, representative seed of said soybean variety 92B84 having been deposited under ATCC Accession No. ____.
30. A method for developing a soybean plant in a soybean breeding program using plant breeding techniques, which include employing a soybean plant, or its parts, as a source of plant breeding material, comprising: obtaining the soybean plant, or its parts, of claim 24 as a source of said breeding material.
31. The soybean breeding program of claim 30 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, mass selection, bulk selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.
32. A soybean plant or parts thereof produced by the method of claim 30.
33. A method for producing a first generation hybrid soybean seed comprising: crossing the plant of claim 24 with a different inbred parent soybean plant, and harvesting the resultant first generation hybrid soybean seed.
34. An F₁ hybrid soybean seed produced by the method of 33.
35. The method of claim 31 for producing a first generation hybrid soybean seed wherein the inbred soybean plant of claim 24 is the female parent.
36. The method of claim 33 for producing a first generation hybrid soybean seed wherein the inbred soybean plant of claim 24 is the male parent.
37. The soybean plant, or parts thereof, of claim 24, wherein the plant or parts thereof have been transformed so that its genetic material contains one or more transgenes.
38. A method for developing a soybean plant in a soybean breeding program using plant breeding techniques, which include employing a soybean plant, or its parts, as a source of plant breeding material, comprising: obtaining the soybean plant, or its parts, of claim 37 as a source of said breeding material.
39. The soybean breeding program of claim 38 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, mass selection, bulk selection, backcrossing, pedigree breeding, restriction fragment length

polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

40. A soybean plant or parts thereof produced by the method of claim 38.
41. A method for producing a soybean plant that contains in its genetic material one or more transgenes, comprising crossing the soybean plant of claim 37 with either a second plant of another soybean line, or a non-transformed soybean plant of the soybean variety 92B84, so that the genetic material of the progeny that result from the cross contains the transgene.
42. A soybean plant or parts thereof, produced by the method of claim 41.
43. An F₁ hybrid soybean seed plant, or parts thereof, grown from the seed of claim 42.
44. A soybean plant or parts thereof, wherein at least one ancestor of said soybean plant is the soybean plant of claim 42.
45. The soybean plant of claim 44 wherein said soybean plant or parts thereof express a combination of at least two 92B84 traits selected from the group consisting of: a relative maturity of 28, very good yield, Multi-race Phytophthora resistance (Rps1k), resistance to Brown Stem Rot, moderate Sudden Death Syndrome tolerance, above average iron deficiency chlorosis tolerance, a substantial degree of glyphosate resistance, and particularly suited to the North Plains, Plains, Southern Plains and Eastern regions of the United States including Iowa, Illinois, Indiana, Missouri, Michigan, Wisconsin and Ohio.
46. A method for producing a soybean variety 92B84-derived soybean plant, comprising:
- (a) crossing soybean variety 92B84, representative seed of said soybean variety 92B84 having been deposited under ATCC Accession No. _____ with a second soybean plant to yield progeny soybean seed; and
 - (b) growing said progeny soybean seed, under plant growth conditions, to yield said soybean variety 92B84-derived soybean plant.
47. A soybean variety 92B84-derived soybean plant, or parts thereof, produced by the method of claim 46.
48. The method of claim 46, further comprising:
- (a) crossing said soybean variety 92B84-derived soybean plant with itself or another soybean plant to yield additional soybean variety 92B84-derived progeny soybean seed;

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- (b) growing said progeny soybean seed of step (a) under plant growth conditions, to yield additional soybean variety 92B84-derived soybean plants; and
 - (c) repeating the crossing and growing steps of (a) and (b) from 0 to 7 times to generate further soybean variety 92B84-derived soybean plants.

49. A soybean variety 92B84-derived soybean plant, or parts thereof, produced by the method of claim 48.